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## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

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3•		nounted on wheels and dr	rawn by a tractor.	50X1-HUM 50X1-HUM
4.	PT-(). This was a steam turbi Its function, use, production a for this machine were processed	rate, or destination were	unknown. Parts	
5.	MPS-(). This machine's nomeno	clature, production rate	e, or use were unknow	50X1-HUM
б.	TsN-(). This machine was beli (tsentrobezhnyy nasos). Its ch rate were unknown.	leved to have been a cer naracteristics, function	ntrifugal pump n, and production	
7.	SG-8. this its compressor.	em was an electric-power	red generator or	50X1-HUM
в.	SG-50. This was a machine simi	llar to the SG-8, probat	oly an improved type.	
9•	EZh. This product was believed intricate design and construct. The plastic rotor blades, or vechemical odor during handling a this machine was production rate and use unknown other similar shafts.  extraction of petroleum.	lon ("E" - elektrichesk: ery light color, emitted and were of considerable in production at the pl n. The pump housing cou	iy; "Zh" - unknown).  d a strong alcoholic-  strength.  lant during 1950-1956	50X1-HUM 50X1-HUM 50X1-HUM
ο.	K-65. This number was believed compressor which was in product in a special shop located with inspections were conducted by smittently appeared at the plant were assembled. The production At times, six to eight such unit on the other hand, several month	The compressor was the assembly workshop soviet Air Force offices the whenever a number of the compressors was to would be assembled during the compressor was the c	as assembled o and the OTK rs, who inter- 50 these compressors s not continuous. uring one month,	50X1-HUM 0X1-HUM
	workers were not military. The inspect or check the work done small insert bearing (vkla@noy The bearing was oval shaped, ms 32 millimeters in inside diametersth. housing had a number of square-	ese same air force officin Shop No. 2 on comport podshipnik), made for ade of bronze with a stater and approximately 10 The outer	nents parts for a the small compressor. eel shaft, and was OO millimeters in shell of the bronze	50X1-HUM 50X1-HUM
	purpose of reducing the weight		ou do se made 101 sue	
	of the bearing shaft must have other parts processed at Shop' I that the bearing after complet: with kerosin - petroleum. The units were shopped from the place of the packing was done in the assitems which were prepared for a	No. 2 for the small commion was always tested in results of the tests ant individually packed sembly shop, not as was	n a container filled were unknown. The in small wooden boxe customary for other	·
	no extensive discussions at the it was common knowledge that the first time the officers approach earlier.	e plant regarding these ney were made for the So	There were compressors, but oviet Air Force.	50X1-HUM
				50X1-HUM

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50X1-HUM

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11.	A number of pistons wave produced at Borets, some of which were made of duraluminum, 150 millimeters in diameter, 300 millimeters long, and which mesembled pistons for automobile engines.	50X1-HUM
	luded in the report is an overlay of Mascow wing the Borets Machine Construction Plant location and surrounding area.	,
		50X1-HUM

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untr	Y: USSR (Moskovskaya oblast)	REPORT	, in the second of the second
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	1100	DATE A	
		DATE OF REPORT: 20 May 1960	 50X1-HU
	BORETS MACHINE	CONSTRUCTION PLANT	50X1-HUM
1.	The Borets Machine Construction along the street (name unrecall basement of the plant building	Plant area extended for about of led). There were shelter areas 1	ne kilometer n the olled by
1.	The Borets Machine Construction along the street (name unrecall basement of the plant building the spets otdel shops were being constructed in	Plant area extended for about of led). There were shelter areas 1	ne kilometer n the colled by New 50X1- n plant
1.	The Borets Machine Construction along the street (name unrecall basement of the plant building the spets otdel shops were being constructed in buildings.	Plant area extended for about of led). There were shelter areas if which were control the area at the rear of the main at the plant were air compressor.	ne kilometer n the colled by New 50X1- n plant 50X1-HUM
2.	The Borets Machine Construction along the street (name unrecall basement of the plant building the spets otdel shops were being constructed in buildings.  The main products manufactured	Plant area extended for about of led). There were shelter areas if which were control the area at the rear of the main at the plant were air compressor.	ne kilometer n the colled by New 50X1- n plant 50X1-HUM
1. 2.	The Borets Machine Construction along the street (name unrecall basement of the plant building the spets otdel shops were being constructed in buildings.  The main products manufactured petroleum perforating machines.  Transportation  Behind the main plant area, the which originated from the Below	Plant area extended for about of led). There were shelter areas if which were control the area at the rear of the main at the plant were air compressor.	ne kilometer n the olled by New 50X1- n plant 50X1-HUM s and

in Gorkiy. Within the main plant area light trucks supplied the shops.

50X1-HUM

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Raw Materials		
in Korocharovo, about iron and steel to all Kalinin Plant about 2	cipal raw material, were received from a warehouse 20 kilometers from Moscow, which supplied crude Moscow plants. Angle iron was brought in from the 00 kilometers distant. Metal pipe for use in the um perforating machines came from a foundry in Tula, ters distant.	
area of the unidentif Plant. Liquid oxygen in Moscow in quantiti 25-liter steel tanks valves. Liquid oxyge came from the Stankol	quired to have special passes in order to enter the ied Moscow plant which supplied oxygen to the Borets was transported by truck from an unidentified plant es of about 20 tanks every three or four days. The containing liquid oxygen had high necks and escape n was also transported by tank trucks which probably it Plant which faced the Borets Plant.  In was transformed into a gaseous state by unknown unidentified shop.	; 50X1-HUN
was picked up at the this ma	m the Serp i Molot Plant in Moscow. Glass wool in b warehouse of an unidentified plant in Yaroslavl. terial was used for escape valve silencers or exhaus iber plates about two meters by one and one-half met synthetic fiber pipe about one meter in length and	t 50X1-HUN
in average size, and 15-20 centimeters in fied plant in Orekhov color, and were highly about two-centimeters	diameter were brought in frequently from an unidenti o Zuyevo. The plates were of a dull reddish brown y polished and shiny. The pipe was cut into segment thick for use in the motors produced at the Borets of the raw materials were shipped to the plant by	
in average size, and 15-20 centimeters in fied plant in Orekhov color, and were highly about two-centimeters Plant. The remainder	o Zuyevo. The plates were of a dull reddish brown y polished and shiny. The pipe was cut into segment thick for use in the motors produced at the Borets	s
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CONFIDENTIAL 50X1-HUM

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	40 kilometers from Moscow, and to the pier in Severnyy Port at the end of Leningradskoye shosse, about 25 kilometers from the center of Moscow and half way to Khimki. The truck route was along Borovskoye shosse to Vnukovo airfield in Kuntsevskiy rayon (Kuntsevo, N 55-44, E 37-27). On several occasions noise of jet aircraft at this airfield 50X1-which was guarded by Air Force personnel. There were many metal towers near the civilian airfield. All the roads in the area were well-paved. The airfield in Bykovka, in Podolskiy rayon, was primarily used for air freight traffic, although there was a small amount of passenger traffic. The canal piers were guarded by sailors who wore the regular blue navy uniform.	
9•	The Borets Plant had a special section called plant supply which handled documentation for every trip. If the trip required remaining away over night, it was essential to have a komandirovka. The route sheet stated vehicle destination. Truck documentation consisted of a cardboard license stating destination, vehicle engine number, tonnage, and date of last vehicle inspection. Trucks were inspected every six months. When requested documents had to be shown to the traffic police or military force personnel.	<b>L,</b>
	Organization and Personnel	
10.	The plant employed about 4,000 workers, of whom about 90 percent were specialists, i.e. fourth category workers or above. Prior to 1949, PW's, Germans and Rumanians worked at the plant. Every shop chief was assisted by a CP secretary, a partorg, and a labor union chief, profsorg. If there were more than 500 workers in a shop, the CP secretary and labor union official did not have a work assignment but attended to their respective duties. Every shop had a starshiy master and corresponding masters for the various types of jobs. The main directorate, zavkom, consisted of the plant director, the CP secretary, the labor union chief, the chief engineer, and the assistant director.	50X1-HUM
11.	The spets otdel was in charge of information and keeping plant secret documents.	50X1-HUM
12.	The garage personnel included a chief, assistant chief, andispatcher, a chief mechanic, a profsorg, a partorg, a komsorg, mechanics, drivers, and office personnel, a total of about 50 employees.	
13.	following plant personalities:	50X1-HUM
	Sergey Ivanovich or Vasilyevich, plant director, petroleum engineer	50X1-HUM
	Nikolay or Nikolayev (fnu) plant partorg;	
	CONFIDENTIAL	50X1-HUM

			20X1-HOM
		CONFIDENTIAL	
		-4-	
	Lebedev, (fnu),	assistant director	50X1-HUM
L	Smirnov (fnu),	garage chief	
14.	gates. Only the in contained a photogram workers, such as can had a special pass the for defense against	2 guards armed with rifles and carbines at the entrance of the plant area was guarded. The propusk raph and shop number. Construction shop (shop No. 12) arpenters, masons, fitters, assemblers, and plumbers, with a border, which permitted them access to all see thigh reinforced concrete tower in the plant area was a aerial attack. Plant firemen who operated two fire practiced fire drills every Sunday.	etions.

UNTRY: USSR (Moskovakaya oblast) REPORT  BJECT: Borets Machine Construction DATE OF Plant in Moscow  DATE A  DATE OF REPORT: 31 May 1960 50X1-  Borets Machine Construction Flant in Moscow.  I. Machine Construction Flant in Moscow.  Borets Flant, known to source as Massinostroitelayy Zeved, was subordinate to tae Ministry or Machine Construction for the Petrolem Industry. The plant was located on Skladochnaya ulitsa (mamber unrecalled) in Branchinkiy rayon, Moscow (see overlay of Moscow Map 50X1-HU Gerasimov (Tum), the director or the plant during 1958-1956.  Plant Products  2. The tasks performed in machine shop No. 2 involved the cleaning, grinding, drilling, cutting, and polishing of many machine parts in preparation for the rinishing work done at other shops.  Or these components, such as cramksharts, housings, pistons, insert bearings, etc., used in the assembly or the machinery under production.	•					50V1 LIII
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which was produced at the Borets Plant:	<b>1.</b> [	Machine Construction Plant in Borets Plant, known to source to the Ministry of Machine Council The plant was located on Skill Dzerzhinskiy rayon, Moscow (The plant employed close to Gerasimov (Thu), the direction of the tasks performed in maching the rinishing work done at our these commonents, such as	n Moscow e as Mashinostroitel onstruction for the adochnaya ulitar (mu see overlay of Mosco 5,000 personnel. etor of the plant du ne shop No. 2 involve hing of many machine other shops.	nyy Zavod, Petroleum mber unrec w Map ring 1954- red the cle e parts in	was subor Industry. alled) in a Soviet, 1956. 50) aning, gri preparation sevens, insert	The dinate  50X1-HU  (1-HUM  nding,  a for  real 50X1-H
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	2.	Machine Construction Plant in Borets Plant, known to source to the Ministry of Machine Council The plant was located on Skill Dzerzhinskiy rayon, Moscow (The plant employed close to Gerasimov (Thu), the direction of the tasks performed in maching the rinishing work done at our of these components, such as etc., used in the assembly of the rollowing t	n Moscow e as Mashinostroitel construction for the adochnaya ulitar (missee overlay of Mosco 5,000 personnel. etor of the plant during of many machine ther shops. eranksharts, housing the machinery under th	Petroleum mber unrec w Map ring 1954- red the cle e parts in ngs, pistor	was subor Industry. alled) in a Soviet, 1956. 50) aning, gri preparation sevens, insert	inate inate 50X1-HU  (1-HUM ading, a for a 150X1-H bearings,

	CONFIDENTIAL		50X1-HUM
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	meters long, two to three meters high. These 1946-1956, at an unknown rate, were believed petroleum industry or for agricultural purpos tions were known.	to be for the	
b.	ND-40. This was a double-cylinder, pressure the ND-20, weight unknown. The pump's production sale price were unknown. The ND-40 was production.	tion rate, use, cost, and	
с.	KP-60. This was a compressor approximately theavy construction, which was mounted on whee Two or three machines were produced per month.  The compressor's characteristic unknown.	is and drawn by a tractor.	50X1-HUM
	and the Satellite countries.	And the export to china	2371, 11211
1.	PT-(). This was a steam turbine parovaya to Its function, use, production rate or destination this machine were processed at Shop No. 2	urbina)(number unknown). tion were unknown. Parts	
е.	MPS-( ). This machine's nomenclature, producture, unknown	tion rate, or use were	50X1-HUM
f.	TsN-(). This machine was believed to have between trobezhnyy nasos). Its characteristics, frate were unknown.	een a centrifugal pump <sub>x</sub> unction, and production	
3∙	compressor.	ric-powered generator or	50X1-HUM
ı.	SG-50. This was a machine similar to $\frac{\text{SG-8}}{\text{g}}$ type.	♥e, probably an improved	
i.	EZh. This product was believed to have been intricate design and construction ("E" - elek The plastic rotor blades, of very light color chemical odor during handling and were of conthis machine was in production production rate and use unknown. The pump ho other similar shafts.	tricheskiy; "Zh" - unknown; , emitted a strong alcoholisiderable strength. at the plant during 1950-19	956 <sub>50</sub> 004 111184
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	<b>-3-</b>	,
j.	K-65. This number was believed to have been the designation of a small compressor which was in production at the plant	50X1-HUM
	The compressor was assemble in a special shop located within the assembly workshop and the OTK inspections were conducted by Soviet Air Force officers, who intermittently appeared at the plant whenever a number of these compressors were assembled. The production of the compressors was not continuous	ed.
	At times six to eight such units would be assembled during one month, on the other hand, several months would go by without producing any.	7
		50X1-HUM
	workers were not military. These same air force officers would at time inspect or check the work done in Shop No. 2 on component parts for a small insert bearing (vkladnoy podshipnik), made for the small compress The bearing was oval shaped, made of bronze with a steel shaft, and was 32 millimeters in inside diameter and approximately 100 millimeters in length.  The outer shell of the broading had a number of square-shaped cut-outs, believed to be made for the purpose of reducing the weight of the unit.	ssor. as n onze 50X1-HUM
	the tole	50X1-HUN
	of the bearing shaft must have been 0.02 millimeters.  other parts processed at Shop No. 2 for the small compressor. It was that the bearing after completion was always tested in a container fill with kerosin - petroleum. The results of the tests were unknown. The units were shipped from the plant individually packed in small wooden The packing was done in the assembly shop, not as was customary for ot items which were prepared for shipment in the packing and crating shop whether or not the air force officers supervised the packing was unknown.	no said led boxes. ther own
	There were no extensive discussions at the plant regarding these compressors, but it was common knowledge that they were made for the Soviet Air Force. The first time the officers appeared at the plant must have been in 19 not earlier.	50X1-HUM
٤.	A number of pistons were produced at Borets, some of which made of dur 150 millimeters in diameter, 300 millimeters long, and which resembled	aluminum,
	pistons for automobile engines.	50X1-HUM
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		50X1-HUM

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	-¼-					
	Other Plants					
4.	Some raw materials were received at Borets from the Moscow plant, Krasnaya Med, location unknown. Bearings, ball and roller, were supplied by an unknown Moscow plant, whereas pipe, pistons and other metal supplies were received from a plant in Leningrad. The foundry of Borets Plant was small, and engine blocks were supplied to the plant from the Stankolit Plant located across the street on Skladochnaya ulitsa. (See overlay, page 6). the pistons supplied from Leningrad were similar to those previously received for which the Borets Plant paid 500 rubles per unit. The pistons supplied 50X1-HUM from Leningrad were considerably less expensive.					
	Special Material					
5•	various small parts such as bushing rings, sleeves, and casings, were made at the plant, and processed in the machine shops from a material which he named sarmayt (sic). This metal was composed of a special mixture of metals or alloys which produced a very hard steel.  this metal was a Soviet development and it was not known in the Western world.  no nickel-plated pumps produced at the plant.					
	Security					
6.						
	Overlay of Moscow Showing Plant Location and Surrounding Area					
7.	The following legend identifies numerically designations on overlay provided on page 6:					
	1. Location of Borets Plant.					
2. Butyrskiy Khutor sector, which underwent an extensive transformation after 1946. During the years 1953-1956, many fields and marshes of this area were converted into residential sections. Many large apartment buildings						
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			T			
	->-					
	were in process or construction					
3•	Stankolit Plant. A large plant	employing more p	ersonnel than Borets	50X4 LUINA		
٠.	Plant. It was said that there was a high incidence of two transfers					
ſ	among the workers.					
4.	Savelovo Railroad Station.					
	<b></b>		momiety or cutting			
5・	Twerdyy Splav plant area. This blades for metal processing lat	produced a	variety of cutting	50X1-HUM		
	blades for metal processing is	2001		JOX 1-1 IOIVI		
	n thuttal ama					
6.	Residential area.					
7.	Skladocnnaya ulitsa.					
	2.000					
8.	Polkovaya ulitsa.			50X1-HUM		



